Tue Feb 07 08:50:07 2012 PROJECT NUMBER SHEET NO. TOTAL SHEETS \dgn\000535 Grady\0000535EG01.dgn STATE *decook* \gdot-dsnl\gocfg\resources\Gdot2007_Kip.tbl CSNHS-0000-00(535) 192 266 Updated: January 10,2012 ESPCP GENERAL NOTES: STAGE 3 CONT'D The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to, or concurrent with, land disturbing activities. WASTE DISPOSAL INTERMEDIATE BMP INSTALLATION Erosion control measures will be maintained at all times. If full implementation of the approved Where attainable, locate waste collection dreas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment shall b I. Maintain all perimeter BMPs. plan does not provide for effective erosion control additional erosion and sediment control 2. Mulch and plant Temporary Grass as required by the special provisions. measures shall be implemented to control or treat the sediment source. 3. Install Check Dams in proposed ditches as shown on the plans. provided around liquid waste collection areas to minimize the likelihood of contaminated 4. Install and Maintain Inlet Sediment Traps as shown on the plans, discharges. The Contractor shall comply with applicable state and local waste storage and disposal PLAN ALTERATIONS regulations and obtain all necessary permits. Solid materials, including building materials, shall 5.Install Temporary Downdrain Structures as shown on the plans. The Erosion, Sedimentation, and Pollution Control Plan (ESPCP) is provided by the Department. It not be discharged to Waters of the State, unless authorized by a Section 404 Permit. 6. Provide positive drainage to Slope Drains as embankments are constructed. addresses the staged construction of the project on the basis of common construction methods and techniques. If the Contractor elects to alter the staged construction from that shown in the plans or INSPECTIONS FINAL BMP INSTALLATION utilize construction techniques that render this plan ineffective the Contractor shall revise the I.As soon as final grade has been established for the the construction of the new plans in accordance to Special Provision 161 of the contract. All inspections shall be documented on the appropriate Department inspection forms. See Standard alignments in the above listed locations, install install Erosion Control Mats and Rip Rap at Specification (or Special Provision) 167 and other contract documents for inspection requirements. Storm Drain outlets, The Contractor, the Certified Design Professional, and the WECS shall carefully evaluate this plan These inspections shall continue until the Notice of Termination (NOT) is submitted. prior to commencing land-disturbing activities. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the ESPCP and the signature of a Failure to perform inspections as required by the contract documents and the NPDES permit shall GSWCC level-II-certified design professional. Additional BMP's may be added per Special PETROLEUM STORAGE, SPILLS, AND LEAKS result in the cessation of all construction activities with the exception of Traffic Control and Provision 161 - Control of Soil Erosion and Sedimentation. Erosion Control. Continued failure to perform inspections shall result in non-refundable These plans expressly delegate the responsibility of on-site hazardous material management to the deductions as specified in the contract documents. TEMPORARY MULCHING Contractor. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture, clean up, and disposal of any petroleum product, or other By agreement with Georgia EPD, the Department's Construction Project Engineer will be EPD General Permit GAR 100002 states that "Any disturbed area left exposed for a period greater hazardous material, leaks or spills associated with the servicing, refueling or operation of any responsible for the seven day inspections required for new BMP installations. than 14 days shall be stabilized with mulch or temporary seeding." However, the Department equipment utilized at the site. A copy of the action plan shall be submitted to the Project Engineer typically requires disturbed areas to be stabilized every 7 days. The construction documents. and maintained on the project site. All personnel operating or servicing equipment shall be special provisions, or specifications may require mulching more often than 7 days. NONSTORM WATER DISCHARGES familiar with the action plan. The Contractor shall not park, refuel, or maintain equipment within Non-storm water discharges defined in Part III.A.2 of the NPDES Permit will be identified after stream buffers. VEGETATION AND PLANTING SCHEDULE construction has commenced. These discharges shall be subject to the same requirements as storm If the Contractor elects to store petroleum products on site, the Contractor shall prepare an ESPCP water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES All temporary and permanent vegetative practices including plant species, planting dates, seeding, addendum that addresses the additional BMPs needed for onsite storage and spill prevention for Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, fertilizer, liming and mulching rates for this project can be found in section 700 of the current edition petroleum products. This plan shall be prepared by a Certified Design Professional as required by Department Standards, and other contract documents. GARIO0002 for inclusion with these plans. The Contractor's attention is specifically directed to of the Department's Standard Specifications (or special provisions) and other applicable contract DE-WATERING AND PUMPING ACTIVITIES documents, special provisions, or landscapina plans. Standard Specification 107-Legal Regulations and Responsibility to the public for additional reauirements. Any pumped discharge from an excavation or disturbed area shall be routed through an SEQUENCE OF MAJOR ACTIVITIES appropriately sized sediment basin, silt filter bag or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP' treated discharge is sheet flowing. Failure to SOIL SERIES INFORMATION The Contractor is responsible for developing the construction schedule for the project. The create sheet flow will obligate the contractor to perform water quality sampling of pumped construction schedule for this project shall be submitted after the project is awarded with the NOI. A project-specific soil survey and geotechnical investigation was performed for this project and discharges. The contractor shall prepare sampling plans in accordance with the current A copy of the construction schedule shall be maintained at the project site. can be made available upon request. Soil characteristics have been given full consideration in the GARIOOOO2 NPDES permit by utilizing by a Certified Design Professional. No separate payment The project budget includes sufficient funds for payment of construction exits. The Contractor is hydrologic analysis, the design of channels and linings, selection of temporary BMP's, design of will be made for water quality sampling of pump discharges. responsible for establishing at least one (I) construction exit per the specifications of the construction energy dissipaters, and the in the selection of permanent vegetation and fertilizers. exit detail included in this ESPCP. To facilitate project logistics, the Contractor is also responsible OTHER CONTROLS for selecting the location(s) of the construction exit(s). The following is a summary of the soils that are expected to be found on the project site: The Contractor shall follow this ESPCP and ensure and demonstrate compliance with applicable State and/or local waste disposal sanitary sewer or septic system regulations. ARDILLA LOAMY SAND, ALAPAHA LOAMY SAND, ANGIE FINE SANDY LOAM. STAGE I JOHNSTON-OSIER-BIBB ASSOCIATION, LAKELAND SAND, MASCOTTE SAND, OLUSTER SAND, This work includes clearing and grubbing of project area and installation of initial BMPs. The Contractor shall control dust from the site in accordance with Section 161 of the current PELHAM LOAMY SAND.PELHAM LOAMY SAND-LOW TERRACE edition of the Department's Standard Specifications. STAGE IA Due to the size and scope of this project and the nature of soil series maps, it is not reasonably SEDIMENT STORAGE practical to delineate the precise locations of the above listed soils on the construction plans. The This work includes placement of asphalt leveling for the construction of the new alignments. NRCS soil survey and soil series maps for the project site are also available online at The site has a total disturbed area of II.3I acres. The following table summarizes the required and available sediment storage for http://websoilsurvey.nrcs.usda.gov/. INITIAL BMP INSTALLATION every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table. I. Concurrent with clearind grubbing activites, install all perimeter controls. Perimeter BMPs include NRCS soil information is not available for this project site. Type C Silt Fence placed outside of the construction limits. Two rows of Type C Silt Fence is required INLET SEDIMENT SILT FENCE in all areas designated as ESAs. CHECKDAM SEDIMENT BASINS TRAPS (0.28 yd3/FT) POST-CONSTRUCTION BMP'S FOR STORMWATER MANAGEMENT (*yd3/EACH) 2. Apply Temporary Grassing and Mulch as necessary to disturbed areas. ("yd3/EACH) REOUIRED SEDIWENT VOLUWE LY 3. Construction Exits shall be installed prior to clearing and grubbing activites. All permanent post-construction BMP's are shown in the construction plans and in the ESPCP TOTAL VOLUME (yd3) TOTAL TOTAL AREA (LENGTH plan. The post-construction BMP's for this project consist of rip rap at pipe outlets VOLUME (yd3) DEVICES VOLUME **VOLUME** STAGE 2 DEVICES OF FENCE for velocity dissipation and outlet stabilization and erosion control mats. (FT) The post-construction BMP's will provide permanent stabilization of the site and prevent abnormal transportation of sediment and pollutants into receiving waters. This work includes the construction of the new alignment of SR II2 from Sta I+15 to 16+00 and the new alignment of I7th Ave from Sta 6+62+.37 to 13+94. It includes the construction of the 4.03 3.69 39 1860.80 OUTFALL I 247. 23 | 1882. 30 | N/A N/A 21.50 N/A N/A right turn lånes along US 84 from Sta 101+21 to 105+58 and from Sta 112+63 to 114+50. OUTFALL 2 | 1.00 | 0.22 14.74 302.60 N/A N/A 302. 60 N/A N/A N/A N/A It also includes the removal of the asphalt/roadbed of existing 7th Street. OUTFALL 3 0.27 0.17 11.39 | 131.40 N/A N/A N/A SILT FENCE INSTALLATIONS WITH J HOOKS AND SPURS 131.40 N/A N/A N/A INTERMEDIATE BMP INSTALLATION OUTFALL 4 0.72 0.32 21.44 | 131.40 I. Maintain all perimeter BMPs. N/A N/A N/A N/A 131.40 N/A N/A Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to 2. Mulch and plant Temporary Grass as required by the special provisions. create small pockets that trap silt and force stormwater to flow through the silt fence. This | OUTFALL 5 | O. 61 | O. 35 23. 45 | 236. 50 236. 50 N/A N/A N/A N/A N/A N/A 3.Install Check Dams in proposed ditches as shown on the plans. technique is called using J hooks (or spurs). The J hooks shall be utilized on all silt fences that 4.Install and Maintain Inlet Sediment Traps as shown on the plans. are located around the perimeter of the project and along the toe of embankments or slopes. The J hooks shall be spaced in accordance with GDOT Construction Detail D-24C. The maximum J OUTFALL 6 2.97 2.05 137. 35 | 1170. 90 N/A 1170.90 N/A N/A N/A N/A N/A 19 5.Install Temporary Downdrain Structures as shown on the plans. 6. Provide positive drainage to Slope Drains as embankments are constructed. | OUTFALL 7 | O. 15 | O. 06 4.02 71.20 N/A N/A N/A 71.20 N/A N/A N/A hooks spacing is reached when the top of the J hook is at the same elevation as the bottom of the immediately downgradient J Hooks shall be paid for as silt fence items per linear foot. All costs 0. 19 | 0. 14 9. 38 | 100. 00 N/A N/A 100.00 N/A N/A N/A FINAL BMP INSTALLATION N/A OUTFALL 8 and other incidental items are included in cost of installing and maintaining the silt fence. I.As soon as final grade has been established for the the construction of the new *85. 09* | *532. 00* 2. 25 | 1. 27 N/A 532.00 N/A N/A N/A N/A OUTFALL 9 alianments in the above listed locations, install install Erosion Control Mats and Rip Rap at OUTFALL 10 0.65 0.50 33. 50 | 148. 00 148.00 SITE STABILIZATION AND BMP MAINTENANCE MEASURES N/A N/A N/A Storm Drain outlets. N/A OUTFALL 11 0.38 0.31 20. 77 | 59. 30 N/A 59. 30 N/A N/A N/A N/A N/A STAGE 3 See the Department's Standard Specifications (or Special Provision) 161,163,165,700,710, and 700 and other contract documents for stabilization and maintenance measures. SHEET FLOW N/A 2.23 N/A N/A N/A N/A N/A N/A N/A 6775 2, 337, 61 This work includes the construction of the new alignment of SR II2 from Sta 0.00 N/A to 1+15 and from Sta 16+00 to 25+00. It includes the new alignment of 17th Ave from In order to prevent runoff from bypassing inlet sediment traps, a temporary sump shall be Sta from 13+94 to 18+00. It also includes the completion of the right turn lane along installed around all inlet sediment traps that are not located in a low point or an excavated US 84 from Sta 114+50 to 116+13 and the Cul-de-sac at Survey CL Sta 8+18,28 is to be constructed. sump. Construct temporary sumps in accordance with Construction Detail D-24C. Temporary sumps It also includes the removal of the asphalt/roadbeds of existing 17th Ave (from Survey CL shall be installed in a manner that ensures stormwater does not bypass the inlet. The Contractor Sta 0.00 to 9.18) and SR 112. may submit alternate temporary containment berm designs to the Project Engineer for approval. STATE OF GEORGIA REVISION DATES DEPARTMENT OF TRANSPORTATION **GEORGIA** OFFICE: DISTRICT 4 DESIGN ESPC GENERAL NOTES **DEPARTMENT** OF **TRANSPORTATION**